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NOTICE OF ALLOWANCE AND FEE(S) DUE

24998

7590

04/02/2004

DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP 2101 L STREET NW WASHINGTON, DC 20037-1526 EXAMINER

ANYA, IGWE U

ART UNIT PAPER NUMBER

2825 DATE MAILED: 04/02/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/635,580	08/07/2003	Brent A. McClure	M4065.0944/P944	8306

TITLE OF INVENTION: IMAGER PHOTO DIODE CAPACITOR STRUCTURE WITH REDUCED PROCESS VARIATION SENSITIVITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/02/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for registronger fee perifections. maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

24998

7590

04/02/2004

DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP 2101 L STREET NW **WASHINGTON, DC 20037-1526**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name) (Signa (Date)

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,580	08/07/2003	Brent A. McClure	M4065.0944/P944	8306

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nonprovisional	NO	\$1330	\$300	\$1630	07/02/2004
EXAMINER		ART UNIT	CLASS-SUBCLASS	7	
ANYA, IGWE U		2825	438-057000	_	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page names of up to 3 registered patent agents OR, alternatively, (2) the name firm (having as a member a registered agent) and the names of up to 2 registered agent) are distributed in the printed.	attorneys or 1e of a single dattorney or 2stered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or category	ories (will not be printed on the patent);	☐ individual	☐ corporation or other private group entity	governmen		
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):					
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.			
☐ Publication Fee	☐ Payment by credit	Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of Copies	☐ The Director is he Deposit Account Nur	hereby authorized by charge the required fee(s), or credit any overpayment, to sumber (enclose an extra copy of this form).				
Director for Patents is requested to apply the Issue Fee a	nd Publication Fee (if any) or to re-apply	any previously p	aid issue fee to the application identified abo	ove.		
(Authorized Signature)	(Date)	-	 			
NOTE; The Issue Fee and Publication Fee (if requirements of the than the applicant; a registered attorney or againterest as shown by the records of the United States Page 1988.	ent: or the assignee or other party in I					
This collection of information is required by 37 CFR obtain or retain a benefit by the public which is to f application. Confidentiality is governed by 35 U.S.C. I estimated to take 12 minutes to complete, including g completed application form to the USPTO. Time wi case. Any comments on the amount of time you suggestions for reducing this burden, should be sent Patent and Trademark Office, U.S. Department 22313-1450. DO NOT SEND FEES OR COMPLE SEND TO: Commissioner for Patents, Alexandria, Virgonia and Complete Send Commissioner for Patents, Alexandria, Virgonia and Complete Send Commissioner for Patents, Alexandria, Virgonia and Complete Send Commissioner for Patents, Alexandria, Virgonia and Commissioner for Patents, Alexandria and Commissioner for Patents and Commissioner for Paten	ile (and by the USPTO to process) an 22 and 37 CFR 1.14. This collection is athering, preparing, and submitting the III vary depending upon the individual require to complete this form and/or to the Chief Information Officer, U.S. of Commerce, Alexandria, Virginia TED FORMS TO THIS ADDRESS.					
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	SHAPIRO MORIN & C	ANYA, I	ANYA, IGWE U	
	2101 L STREET NW WASHINGTON, DC 20037-1526			PAPER NUMBER
	,, 20 2000 1020		2825	
			DATE MAILED: 04/02/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	10/635,580	MCCLURE, BRENT A.
Notice of Allowability	Examiner	Art Unit
	Igwe U. Anya	2825
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. A This communication is responsive to Paper filled on 7 Augustian	<u>ust 2003</u> .	
2. The allowed claim(s) is/are <u>1-28</u> .		
3. \boxtimes The drawings filed on <u>07 August 2003</u> are accepted by the	Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet of the state of the sheet	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C	Office action of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr	ie

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance. Applicant's
 claims 1 – 28 are allowable, because prior art does not teach:

(Claims 1, 9, 15, 16, 17, & 18) within a pixel cell, at least two series-connected storage capacitors coupled to a charge collection region of a photogate; and

(Claim 25) forming simultaneously at least two series-connected storage capacitors within a pixel cell, and a periphery capacitor connected to the pixel cell.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 2. Prior art considered, include Henderson (USPAB 2003/0164443), and Street (US Patent 6489619).
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Igwe U. Anya whose telephone number is (751) 272-1887. The examiner can normally be reached on M F 8:30am 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on (751) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/635,580

Art Unit: 2825

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Igwe U. Anya Examiner Art Unit 2825

IA

March 12, 2004

MATTHEW SMITH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800